PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTI		fication of Transmittal of International Preliminary				
International application No.	International filing date (day/month/year)		Priority Date (day/month/year)				
PCT/KR 2003/001626	12 August 2003 (12.	•	14 August 2002 (14.08.2002)				
			14 August 2002 (14.00.2002)				
International Patent Classification (IPC) or national classification and IPC							
IPC ⁷ : A61K 7/48							
Applicant							
SK CHEMICALS CO. LTD.							
1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of sheets.							
3. This report contains indications rel	ating to the following iten	ns:					
I. Basis of the opin	ion						
II. Priority							
III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
IV. Lack of unity of	IV. Lack of unity of invention						
V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI. Certain documer	VI. Certain documents cited						
VII. Certain defects in the international application							
VIII. Certain observations on the international application							
Date of submission of the demand		Date of complet	ion of this report				
10.03.2004		6 De	ecember 2004 (06.12.2004)				
Name and mailing address of the IPEA/A	AT	Authorized officer					
Austrian Patent Office Dresdner Straße 87			BAUMSCHABL F.				
A-1200 Vienna			DAOMOOFIABLI.				
Facsimile No. 1/53424/200		Telephone No.	1/53424/459				

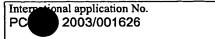
Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PIEMINARY EXAMINATION REPORT

Internation	ational application No.		
PC	2003/001626		

I.		Basis of the report					
1.	Wit	h regard to the elements of the international application:*					
	\boxtimes	the international application as originally filed					
		the description:					
		pages, as originally filed					
		pages, filed with the demand					
		pages, filed with the letter of					
		the claims:					
		pages, as originally filed pages, as amended (together with any statement) under Article 19					
		pages, as amended (together with any statement) under Article 19					
		pages, filed with the letter of					
		the drawings: pages, as originally filed					
		pages, as originally fried pages, filed with the demand					
		pages, filed with the letter of					
							
	ш-	the sequence listing part of the description: pages, as originally filed					
		pages, filed with the demand					
		pages, filed with the letter of					
2.	Witl	h regard to the language, all the elements marked above were available or furnished to this Authority in the language in					
	whie	ch the international application was filed, unless otherwise indicated under this item.					
	The	se elements were available or furnished to this Authority in the following language English which is:					
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).					
		the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).					
3.	With preli	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos					
	_	the drawings, sheets/fig					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
7	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
		pplacement sheet containing such amendments must be referred to under item I and annexed to this report.					

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V.	Reasoned statement under Articitations and explanations supp	icle 35(2) porting su	with regard to novelty, inventive step or industrial applicability; ach statement		
1.	Statement				
	Novelty (N)	Claims	2-7	YES	
		Claims	1	NO	
_	Inventive step (IS)	Claims	3-6	YES	
		Claims	1,2,7	NO	
-	Industrial applicability (IA)	Claims	1-7	YES	
	,	Claims	~	NO	
Citations and explanations (Rule 70.7)					

Although we sent two reminders we still have not received all English translations of the documents cited in the search report of the Korean Intellectual Property Office. The international preliminary examination report is therefore based only on the available documents.

The English translation of claim 1 of KR 99-79378 A submitted to the Austrian Patent Office describes a cosmetic composition for prevention and treatment of pimples comprising natural substances selected from the group consisting of Arctium lappa, Glycyrrhiza glabra and Angelica dahurica. None of the extracts of Cavalia gladiata, Biota orientalis and Coptis chinensis of the subject matter of claim 1 of the present application are mentioned in the translation.

The second document cited in the search report (CN 1332002 A) can only be evaluated on the basis of abstracts:

CN 1332002 A (ZHANG J.), 2002-01-23 (abstract) World Patents Index [online] [retrieved on 2004-12-02]. Retrieved from EPO WPI database. DW: 200237, AN: 2002-330592 [37].

and

CN 1332002 A (ZHANG J.), 2002-01-23 (abstract) [online] [retrieved on 2004-12-02]. Retrieved from EPO EPODOC database.

The abstracts relate to a medicinal capsule useful in the treatment of acne comprising artificial bezoar, pearl, Radix Scutellariae, notoginseng, Rhizoma Coptidis, rhbarb, cimetidine, zinc gluconate and vitamin B₆. Cavalia gladiata, Biota orientalis and Coptis chinensis are not mentioned in the abstracts.

The third document cited in the search report (ZENG, ZUPIN et al., "Studies on the quality of Xiaocuojiefu", Zhongcaoyao, China, 1996, Vol.27, No. 9, pp.529-530) can only evaluated on the basis of the abstract of Chemical Abstracts (AN: 125: 308787). The abstract relates to a traditional Chinese preparation (Xiacuojiefu) used in treatment of

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V (page 1)

acne. Main components were Chrysanthemum indicum, <u>Coptis chinensis</u> and sophora flavescens.

Therefore the subject matter of claim 1 of the present application is not to be seen new. A skilled person would use such extracts for topical formulations (like emulsion, cosmetic liquid, ointment and so on) in an amount of from 0.001 to 20 wt%. Therefore the subject matter of claims 1,2 and 7 are not considered to involve an inventive step.

The forth document cited in the search report (LEE, HYEONG-KYU et al., "Compounds from Biota orientalis leaves inhibit expression of adhesion molecules induced by TNF-alpha on inflammatory cells", Recent Advances in Natural Products Research, Proceedings of the International Symposium on Recent Advances in Natural Products Research 3rd, Republic of Korea, Nov, 1999, pp. 54 – 62) can only evaluated on the basis of the abstract of Chemical Abstracts (AN: 133: 329268). The study of the article suggests that Biota (orientalis) leaves are useful for the treatment of acute and chronic inflammation including bronchitis.

The last document (LEE, GYEONG-IM et al.), was also evaluated on the basis of the abstract of Chemical Abstracts (AN: 122: 151064). Different extracts (e.g. Coptis chinensis) were tested for their inhibitory effects in specific rat macrophages.

The subject matter of claims 2 to 7 are considered to be new. Claims 3 to 6 are considered to be inventive. Industrial applicability is given.